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FACSIMILE TRANSMITTAL SHEET

DATE: October 25, 2006 FILE NUMBER: 03226/073001

TO: Examiner T. H. Stevens FAX NUMBER: 571-273-3715 (Examiner Courtesy Copy)
571-273-8300 (Central Fax)

FROM: Seema M. Mehta

PAGES INCLUDING COVER: 7

RE: Proposed Claim Amendments to be entered with filed RCE and Reasons for Examiner Interview for Application Serial No. 10/010,238

☐ URGENT ■ FOR REVIEW ☐ PLEASE COMMENT ☐ PLEASE REPLY ☐ PLEASE RECYCLE

NOTES/COMMENTS:

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Applicant Initiated Interview Request Form

Application No.: 10/010,238-Conf. #5843 First Named Applicant: Miriam G. Blatt
Examiner: T. H. Stevens Art Unit: 2123 Status of Application: Published

Tentative Participants:

(1) Examiner Stevens (2) Seema M. Mehta, Reg. No. 56,235
(3) _____ (4) _____

Proposed Date of Interview: TBD **Proposed Time:** TBD (AM/PM)

Type of Interview Requested:
(1) [XX] Telephonic (2) [ ] Personal (3) [ ] Video Conference

Exhibit To Be Shown or Demonstrated: [ ] YES [X] NO

If yes, provide brief description: _____

Issues To Be Discussed

Issues (Rej., Obj., etc)	Claims/ Fig. #s	Prior Art	Discussed	Agreed	Not Agreed
(1) 103(a)	1, 5, 10	Hurd	[ ]	[ ]	[ ]
(2)			[ ]	[ ]	[ ]
(3)			[ ]	[ ]	[ ]
(4)			[ ]	[ ]	[ ]

[X] Continuation Sheet Attached

Brief Description of Arguments to be Presented:

See attached Interview Agenda and Proposed Claim Amendments

An interview was conducted on the above-identified application on _____.

NOTE:
This form should be completed by applicant and submitted to the examiner in advance of the interview (see MPEP §713.01).
This application will not be delayed from issue because of applicant's failure to submit a written record of this interview. Therefore, applicant is advised to file a statement of the substance of this interview (37 CFR 1.133(b)) as soon as possible.

_____ Applicant/Applicant's Representative Signature

_____ Examiner/SPE Signature

Seema Mehta
Typed/Printed Name of Applicant or Representative

56,235
Registration Number, if applicable

Examiner Interview Agenda

Application Serial No. 10/010,238
To: Examiner T. H. Stevens

Date and Time of Examiner Interview: TBD

During the Examiner Interview, Applicant would like to discuss the following:

1. A review of the claimed invention;
2. The attached proposed claim amendments;
3. Prior Art referenced Hurd;

Applicant would like to discuss how the cited portion of Hurd (i.e., Table 2) teaches power values that are reported in the single cycle summary data, multi-cycle summary data, and multi-cycle derivative summary data. Applicant's reading of Hurd suggests that Hurd only teaches current values shown during particular types of instructions that are performed on the processor. It appears that Hurd fails to teach or suggest power values such as those recited in the proposed amended claims.

Thus, Applicant would like to discuss whether the proposed claim amendments overcome the Boblio and Hurd combination in order to move this application forward in prosecution.

In view of the Request for Continued Examination filed in this case on 10/20/06, which stated that the RCE submission would correspond to claim amendments decided via an Examiner Interview, Applicant hereby attaches an Applicant Initiated Interview Request Form.

Application No.: 10/010,238 Docket No.: 03226/073001; P5521

AMENDMENTS TO THE CLAIMS

Please amend the claims as follows.

1. (Currently Amended) A method for analyzing a power modeling simulation, comprising:
   receiving simulated power value data from [[the]] a power modeling simulator, wherein the power value data comprises at least one type of power value[[s]] selected from MAX, TYP, MIN, and TypMax;
   generating a set of summary data from the power value data[[,]]; and
   reporting the summary data,
   wherein the summary data includes at least one type of data selected from single-cycle summary data configured to report a peak single cycle derivative power value, multi-cycle summary data configured to report a peak average power value over multiple cycles, and multi-cycle derivative data configured to report a peak derivative power value over multiple cycles, ~~and~~
   ~~wherein each type of the summary data comprises at least one characteristic factor~~.

2. (Currently Amended) The method of claim 1, wherein:
   ~~the step for~~ generating summary data includes generating multi-cycle summary data, comprising:
      calculating a value of a single-cycle derivative,
         wherein the single-cycle derivative is a derivative of two particular power data in a set of successive cycles.

3. (Original) The method of claim 2, wherein the single-cycle derivative is a peak single-cycle derivative.

4. (Cancelled)

5. (Currently Amended) A method of analyzing power modeling simulation for designing a chip, comprising:

PAGE 4/7 * RCVD AT 10/25/2006 2:28:03 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-5/6 * DNIS:2733715 * CSID:7132288778 * DURATION (mm-ss):01-28

obtaining a plurality of power value data from a power modeling simulator, wherein the plurality of power values comprises at least one type of power value selected from MAX, TYP, MIN, and TypMax;

generating a set of summary data; and

reporting the summary data as parameters for chip design,

wherein the summary data includes at least one type of data selected from single-cycle summary data configured to report a peak single cycle derivative power value, multi-cycle summary data configured to report a peak average power value over multiple cycles, and multi-cycle derivative data configured to report a peak derivative power value over multiple cycles~~, and~~

~~wherein each type of the summary data comprises at least one characteristic factor~~.

6. (Currently Amended) The method of claim 5, wherein ~~the step for~~ generating summary data comprises:

calculating a multiple-cycle power average,

wherein the multi-cycle power average is an average of the power value data over a plurality of cycles.

7. (Original) The method of claim 6, wherein a length of the plurality of cycles is fixed.

8. (Previously Presented) The method of claim 6, wherein generating summary data further comprises:

calculating a peak value of the multi-cycle power average.

9. (Cancelled)

10. (Currently Amended) A method of data analysis for a power modeling simulation, comprising:

obtaining a plurality of power value data from [[the]] a power modeling simulator, wherein the power value data comprises at least one type of power value selected from MIN, TYP, MAX, and TypMax;

generating a set of summary data from the power value data;

analyzing the summary data according to a design requirement; and

reporting a result of the analyzing step;

wherein the summary data includes at least one type of data selected from single-cycle summary data configured to report a peak single cycle derivative power value, multi-cycle summary data configured to report a peak average power value over multiple cycles, and multi-cycle derivative data configured to report a peak derivative power value over multiple cycles; ~~and~~

~~wherein each type of the summary data comprises at least one characteristic factor~~.

11. (Original) The method of claim 10, further comprising:

calculating a value of the multi-cycle derivative.

12. (Original) The method of claim 11, further comprising:

setting a threshold value as a reference value for determining the end of a current multi-cycle derivative;

calculating a single-cycle derivative; calculating a derivative of a start value and an end value of associated power data in the current multi-cycle derivative;

calculating a ratio of the value of the single-cycle derivative over the value of a derivative of the start value and the end values of associated power data derivative when the direction of the current multi-cycle derivative changes; and

generating the value and its cycle of the multi-cycle derivative when the ratio becomes larger than the threshold value, wherein the single-cycle derivative is a derivative of two particular power data in successive cycles.

13. (Original) The method of claim 11, further comprising:

setting a threshold value that is a reference value for determining the end of a current multi-cycle derivative;

calculating a difference from a highest value to a current value of the power data in the current multi-cycle derivative;

calculating a difference from the highest value to a start value of the power data in the current multi-cycle derivative;

calculating a ratio of the difference from the highest value to the current value of the power data over the difference from the highest value to the start value of the power data in the current multi-cycle derivative when the direction of the current multi-cycle derivative changes; and

PAGE 6/7 * RCVD AT 10/25/2006 2:28:03 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-5/6 * DNIS:2733715 * CSID:7132288778 * DURATION (mm-ss):01-28

generating the end-value and its end-cycle of the current multi-cycle derivative when the ratio becomes larger than the threshold value.

14. (Previously Presented) The method of claim 1, further comprising:

applying an automatic detection scheme to detect an end for an multi-cycle derivative (MCD), if an multi-cycle derivative is included in the summary, wherein the automatic detection scheme is one selected from single-cycle derivative (SCD)/MCD, DROP/TOP, and a combination thereof.

15. (Previously Presented) The method of claim 5, further comprising:

applying an automatic detection scheme to detect an end for an multi-cycle derivative, if an multi-cycle derivative is included in the summary, wherein the automatic detection scheme is one selected from single-cycle derivative (SCD)/MCD, DROP/TOP, and a combination thereof.

16. (Previously Presented) The method of claim 10, further comprising:

applying an automatic detection scheme to detect an end for an multi-cycle derivative, if an multi-cycle derivative is included in the summary, wherein the automatic detection scheme is one selected from single-cycle derivative (SCD)/MCD, DROP/TOP, and a combination thereof.

PAGE 7/7 * RCVD AT 10/25/2006 2:28:03 PM [Eastern Daylight Time] * SVR:USPTO-EFXRF-5/6 * DNIS:2733715 * CSID:7132288778 * DURATION (mm-ss):01-28